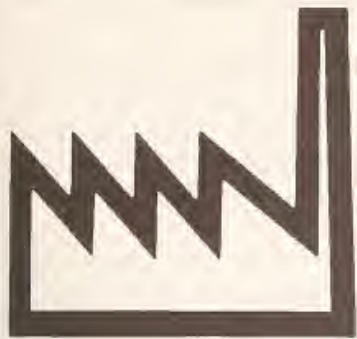


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PRELIMINARY REPORT
INDUSTRY SERIES

1987

Census of Manufactures

MC87-I-20C(P)
Issued May 1989

PRESERVED FRUITS AND VEGETABLES

Industries 2032, 2033, 2034, 2035, 2037, and 2038

INTRODUCTION

This report presents preliminary statistics from the 1987 Census of Manufactures for those establishments classified in the industries listed above. These data will be superseded by a more comprehensive final paperbound report. The method of data collection and use of administrative data are discussed in detail in the appendix.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The definitions of these industries are the same as those used in the 1987 Standard Industrial Classification (SIC) Manual.¹

INDUSTRY 2032, CANNED SPECIALTIES

In the 1987 Census of Manufactures, Industry 2032, Canned Specialties, had employment of 24.5 thousand. The employment figure was 5 percent above the 23.4 thousand reported in 1982. Compared with 1986, employment in 1987 decreased 1 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of production for establishments classified in this industry was \$5.4 billion.

In 1987, establishments in this industry accounted for 92 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 90 percent. The products primary to this industry appear in table 2 and aggregated to \$4.4 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$2.7 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2033, CANNED FRUITS AND VEGETABLES

In the 1987 Census of Manufactures, Industry 2033, Canned Fruits and Vegetables, had employment of 65.4 thousand. The employment figure was 7 percent below the 70.5 thousand reported in 1982. Compared with 1986, employment in 1987 decreased 3 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of production for establishments classified in this industry was \$11.9 billion.

In 1987, establishments in this industry accounted for 84 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 87 percent. The products primary to this industry appear in table 2 and aggregated to \$12.2 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$6.5 billion in 1987. Data on specific materials consumed appear in table 3.

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

Address inquiries to Bureau of the Census, Industry Division, Washington, DC 20233, or call Don Wheeler (301) 763-2510.



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INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS

In the 1987 Census of Manufactures, Industry 2034, Dehydrated Fruits, Vegetables, and Soups, had employment of 10.1 thousand. The employment figure was 26 percent below the 13.6 thousand reported in 1982. Compared with 1986, employment in 1987 decreased 17 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of production for establishments classified in this industry was \$1.8 billion.

In 1987, establishments in this industry accounted for 81 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 93 percent. The products primary to this industry appear in table 2 and aggregated to \$2.1 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$927.9 million in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS

In the 1987 Census of Manufactures, Industry 2035, Pickles, Sauces, and Salad Dressings, had employment of 21.0 thousand. The employment figure was 5 percent below the 22.0 thousand reported in 1982. Compared with 1986, employment in 1987 decreased 9 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of production for establishments classified in this industry was \$4.9 billion.

In 1987, establishments in this industry accounted for 84 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 83 percent. The products primary to this industry appear in table 2 and aggregated to \$4.5 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$2.5 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES

In the 1987 Census of Manufactures, Industry 2037, Frozen Fruits and Vegetables, had employment of 49.7 thousand. The employment figure was 4 percent above the 47.7 thousand reported in 1982. Compared with 1986, employment in 1987 increased 7 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of production for establishments classified in this industry was \$6.6 billion.

In 1987, establishments in this industry accounted for 93 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio also was 93 percent. The products primary to this industry appear in table 2 and aggregated to \$6.2 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$3.7 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2038, FROZEN SPECIALTIES, N.E.C.

In the 1987 Census of Manufactures, Industry 2038, Frozen Specialties, N.E.C., had employment of 37.1 thousand.

The total value of production for establishments classified in this industry was \$5.6 billion.

In 1987, establishments in this industry accounted for 94 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). The products primary to this industry appear in table 2 and aggregated to \$5.2 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$2.8 billion in 1987. Data on specific materials consumed appear in table 3.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in the tables in this publication:

| | |
|--------|--|
| - | Represents zero. |
| (D) | Withheld to avoid disclosing data for individual companies; data are included in higher level totals. |
| (NA) | Not available. |
| (NC) | Not comparable. |
| (S) | Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review. |
| (X) | Not applicable. |
| (Z) | Less than half the unit shown. |
| do | Ditto. |
| n.e.c. | Not elsewhere classified. |
| n.s.k. | Not specified by kind. |
| pt. | Part. |
| r | Revised. |
| SIC | Standard Industrial Classification. |

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

CONTACTS FOR DATA USERS

| Subject Area | Contact | Phone | Import/Export Publications | Foreign Trade Division | (301) 763-5140 |
|----------------------------|-------------------|----------------|---------------------------------|------------------------------------|----------------|
| Census/ASM | | | Industry Analysis and Forecasts | International Trade Administration | (202) 377-4356 |
| Durables | Kenneth Hansen | (301) 763-7304 | | | |
| Nondurables | Michael Zampogna | (301) 763-2510 | | | |
| Current Industrial Reports | | | | | |
| Durables | Malcolm Bernhardt | (301) 763-2518 | | | |
| Nondurables | Thomas Flood | (301) 763-5911 | | | |

Table 1. Historical Statistics for the Industry: 1987 and Earlier Years

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix.]

| Year ¹ | All establishments ³ | | | All employees | | Production workers | | | Value added by manufac- ture ⁴ (million dollars) | Cost of materials (million dollars) | Value of shipments (million dollars) | New capital expendi- tures (million dollars) | End-of- year inventories ⁴ (million dollars) | Ratios | |
|--|--------------------------------------|----------------|---|-------------------|---------------------------------|--------------------|---------------------|-------------------------------|--|--|---|---|---|--|---------------------------------|
| | Compa- nies ² (no.) | Total (no.) | With 20 employ- ees or more (no.) | Number (1,000) | Payroll (million dollars) | Number (1,000) | Hours (millions) | Wages (million dollars) | | | | | | Spe- cial- ization (per- cent) | Cover- age (per- cent) |
| | | | | | | | | | | | | | | | |
| INDUSTRY 2032, CANNED SPECIALTIES ⁵ | | | | | | | | | | | | | | | |
| 1987 Census | 177 | 206 | 86 | 24.5 | 526.0 | 19.5 | 38.3 | 396.7 | 2 661.9 | 2 703.3 | 5 364.5 | 148.7 | 726.6 | 78 | 92 |
| 1986 ASM | (NA) | (NA) | (NA) | 24.7 | 513.2 | 19.6 | 38.6 | 383.2 | 2 326.3 | 2 629.9 | 4 957.6 | 178.8 | 670.2 | (NA) | (NA) |
| 1985 ASM | (NA) | (NA) | (NA) | 24.2 | 476.9 | 19.7 | 37.0 | 366.9 | 2 161.2 | 2 638.4 | 4 801.7 | 113.6 | 764.9 | (NA) | (NA) |
| 1984 ASM | (NA) | (NA) | (NA) | 24.1 | 451.6 | 19.6 | 37.9 | 348.1 | 2 158.9 | 2 631.0 | 4 784.0 | 101.4 | 835.8 | (NA) | (NA) |
| 1983 ASM | (NA) | (NA) | (NA) | 24.8 | 443.8 | 20.3 | 40.0 | 337.8 | 1 958.4 | 2 410.0 | 4 370.1 | 79.1 | 706.1 | (NA) | (NA) |
| 1982 Census | 171 | 198 | 88 | 23.4 | 392.4 | 19.0 | 37.0 | 297.6 | 1 769.3 | 2 372.0 | 4 140.8 | 154.3 | 638.4 | 78 | 90 |
| 1981 ASM | (NA) | (NA) | (NA) | 24.1 | 373.2 | 19.7 | 38.4 | 286.2 | 1 538.4 | 2 316.9 | 3 851.4 | 68.4 | 615.2 | (NA) | (NA) |
| 1980 ASM | (NA) | (NA) | (NA) | 25.0 | 362.3 | 20.3 | 40.8 | 280.3 | 1 414.1 | 2 160.4 | 3 573.6 | 69.5 | 612.4 | (NA) | (NA) |
| 1979 ASM | (NA) | (NA) | (NA) | 26.3 | 345.1 | 21.5 | 42.8 | 265.5 | 1 308.9 | 2 051.5 | 3 361.0 | 73.1 | 579.2 | (NA) | (NA) |
| 1978 ASM | (NA) | (NA) | (NA) | 26.6 | 325.7 | 21.6 | 44.4 | 253.7 | 1 243.0 | 1 920.2 | 3 162.9 | 59.2 | 567.7 | (NA) | (NA) |
| 1977 Census | 172 | 203 | 88 | 26.4 | 296.5 | 21.5 | 42.4 | 224.3 | 1 142.6 | 1 687.7 | 2 829.2 | 46.7 | 527.8 | 80 | 89 |
| 1976 ASM | (NA) | (NA) | (NA) | 28.9 | 286.3 | 23.9 | 45.0 | 214.0 | 1 123.4 | 1 633.3 | 2 575.3 | 41.7 | 475.7 | (NA) | (NA) |
| 1975 ASM | (NA) | (NA) | (NA) | 27.5 | 265.8 | 22.3 | 45.3 | 200.3 | 1 057.0 | 1 545.4 | 2 590.3 | 28.0 | 464.3 | (NA) | (NA) |
| 1974 ASM | (NA) | (NA) | (NA) | 29.2 | 248.9 | 23.6 | 46.9 | 189.8 | 887.2 | 1 507.8 | 2 382.0 | 41.1 | 485.7 | (NA) | (NA) |
| 1973 ASM | (NA) | (NA) | (NA) | 30.2 | 250.6 | 24.0 | 48.6 | 186.2 | 883.3 | 1 307.1 | 2 187.3 | 46.2 | 417.4 | (NA) | (NA) |
| 1972 Census | 178 | 203 | 88 | 29.1 | 217.8 | 24.0 | 46.9 | 167.0 | 814.6 | 1 062.3 | 1 876.6 | 44.1 | 347.5 | 81 | 91 |
| INDUSTRY 2033, CANNED FRUITS AND VEGETABLES ⁵ | | | | | | | | | | | | | | | |
| 1987 Census | 463 | 638 | 417 | 65.4 | 1 160.0 | 55.8 | 104.2 | 878.3 | 5 434.0 | 6 450.5 | 11 868.0 | 259.8 | 2 743.5 | 90 | 84 |
| 1986 ASM | (NA) | (NA) | (NA) | 67.4 | 1 052.5 | 57.4 | 102.0 | 824.0 | 5 184.8 | 6 022.7 | 11 170.7 | 240.0 | 2 694.1 | (NA) | (NA) |
| 1985 ASM | (NA) | (NA) | (NA) | 67.6 | 1 132.5 | 57.3 | 105.4 | 847.5 | 4 448.3 | 6 440.2 | 10 998.7 | 264.1 | 2 869.8 | (NA) | (NA) |
| 1984 ASM | (NA) | (NA) | (NA) | 69.0 | 1 134.1 | 58.5 | 109.3 | 854.5 | 4 129.8 | 6 353.0 | 10 389.6 | 242.4 | 2 922.1 | (NA) | (NA) |
| 1983 ASM | (NA) | (NA) | (NA) | 65.2 | 1 007.9 | 55.6 | 103.9 | 776.9 | 3 660.8 | 5 641.4 | 9 358.1 | 267.7 | 2 429.9 | (NA) | (NA) |
| 1982 Census | 514 | 715 | 451 | 70.5 | 1 040.1 | 60.7 | 113.6 | 822.4 | 3 552.7 | 5 768.1 | 9 283.4 | 264.1 | 2 781.0 | 89 | 87 |
| 1981 ASM | (NA) | (NA) | (NA) | 78.2 | 1 052.5 | 68.2 | 126.7 | 837.3 | 3 253.2 | 5 791.0 | 9 033.4 | 269.8 | 2 872.9 | (NA) | (NA) |
| 1980 ASM | (NA) | (NA) | (NA) | 79.8 | 993.9 | 68.3 | 129.0 | 799.9 | 2 745.0 | 5 682.4 | 8 413.4 | 243.6 | 2 802.1 | (NA) | (NA) |
| 1979 ASM | (NA) | (NA) | (NA) | 82.4 | 939.6 | 71.4 | 135.9 | 761.8 | 2 813.6 | 5 338.1 | 8 128.3 | 200.4 | 2 536.9 | (NA) | (NA) |
| 1978 ASM | (NA) | (NA) | (NA) | 82.7 | 852.1 | 73.1 | 132.7 | 682.5 | 2 816.9 | 4 425.1 | 7 236.9 | 206.9 | 2 202.7 | (NA) | (NA) |
| 1977 Census | 648 | 900 | 519 | 82.6 | 789.8 | 72.6 | 135.0 | 636.6 | 2 546.1 | 4 135.3 | 6 666.5 | 147.1 | 2 233.5 | 90 | 89 |
| 1976 ASM | (NA) | (NA) | (NA) | 82.2 | 728.1 | 73.3 | 131.3 | 582.7 | 2 342.1 | 3 888.9 | 6 217.5 | 155.6 | 2 097.4 | (NA) | (NA) |
| 1975 ASM | (NA) | (NA) | (NA) | 83.6 | 707.3 | 74.9 | 141.4 | 570.7 | 2 067.7 | 3 943.8 | 5 988.6 | 185.8 | 1 925.1 | (NA) | (NA) |
| 1974 ASM | (NA) | (NA) | (NA) | 85.4 | 647.7 | 76.9 | 145.2 | 523.0 | 1 853.3 | 3 585.7 | 5 430.7 | 164.7 | 1 709.4 | (NA) | (NA) |
| 1973 ASM | (NA) | (NA) | (NA) | 88.6 | 595.3 | 78.0 | 146.3 | 476.7 | 1 898.9 | 2 765.9 | 4 644.0 | 135.4 | 1 286.5 | (NA) | (NA) |
| 1972 Census | 765 | 1 038 | 621 | 89.8 | 559.9 | 78.8 | 147.1 | 447.9 | 1 625.1 | 2 414.8 | 4 043.8 | 113.1 | 1 197.0 | 89 | 94 |
| INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS | | | | | | | | | | | | | | | |
| 1987 Census | 104 | 127 | 68 | 10.1 | 190.5 | 8.4 | 15.4 | 137.6 | 938.2 | 927.9 | 1 829.6 | 48.2 | 516.6 | 93 | 81 |
| 1986 ASM | (NA) | (NA) | (NA) | 12.2 | 221.9 | 9.9 | 17.4 | 153.5 | 859.7 | 922.4 | 1 816.9 | 647.1 | 498.9 | (NA) | (NA) |
| 1985 ASM | (NA) | (NA) | (NA) | 13.2 | 242.8 | 11.0 | 20.2 | 175.0 | 839.9 | 973.5 | 1 788.0 | 661.4 | 529.8 | (NA) | (NA) |
| 1984 ASM | (NA) | (NA) | (NA) | 11.9 | 216.4 | 9.7 | 17.8 | 153.1 | 685.6 | 932.6 | 1 686.4 | 654.9 | 463.3 | (NA) | (NA) |
| 1983 ASM | (NA) | (NA) | (NA) | 11.0 | 210.0 | 8.8 | 17.3 | 151.5 | 697.0 | 945.4 | 1 646.9 | 44.0 | 545.2 | (NA) | (NA) |
| 1982 Census | 119 | 151 | 85 | 13.6 | 216.9 | 11.2 | 19.1 | 156.2 | 792.3 | 985.0 | 1 745.1 | 51.7 | 554.8 | 94 | 93 |
| 1981 ASM | (NA) | (NA) | (NA) | 12.3 | 186.0 | 9.8 | 17.9 | 132.5 | 687.4 | 964.3 | 1 591.7 | 54.7 | 423.1 | (NA) | (NA) |
| 1980 ASM | (NA) | (NA) | (NA) | 13.5 | 181.2 | 10.8 | 20.5 | 128.9 | 701.4 | 906.1 | 1 518.3 | 46.6 | 416.8 | (NA) | (NA) |
| 1979 ASM | (NA) | (NA) | (NA) | 14.0 | 177.6 | 11.6 | 21.1 | 124.4 | 598.2 | 758.0 | 1 311.5 | 44.8 | 315.7 | (NA) | (NA) |
| 1978 ASM | (NA) | (NA) | (NA) | 14.4 | 171.6 | 11.8 | 22.0 | 122.7 | 519.4 | 764.9 | 1 278.9 | 54.2 | 293.5 | (NA) | (NA) |
| 1977 Census | 143 | 184 | 87 | 14.4 | 153.9 | 11.7 | 22.1 | 111.5 | 485.9 | 685.3 | 1 142.4 | 52.5 | 281.9 | 94 | 88 |
| 1976 ASM | (NA) | (NA) | (NA) | 12.5 | 122.1 | 10.5 | 18.8 | 88.2 | 425.6 | 621.9 | 1 048.8 | 47.0 | 268.5 | (NA) | (NA) |
| 1975 ASM | (NA) | (NA) | (NA) | 12.9 | 114.0 | 10.8 | 18.7 | 81.8 | 405.8 | 546.1 | 919.5 | 43.7 | 247.5 | (NA) | (NA) |
| 1974 ASM | (NA) | (NA) | (NA) | 12.8 | 99.8 | 10.9 | 19.3 | 72.2 | 417.5 | 538.8 | 923.9 | 38.5 | 212.6 | (NA) | (NA) |
| 1973 ASM | (NA) | (NA) | (NA) | 12.2 | 89.2 | 10.2 | 18.5 | 67.0 | 315.9 | 406.0 | 720.5 | 16.8 | 156.7 | (NA) | (NA) |
| 1972 Census | 133 | 178 | 88 | 12.4 | 84.3 | 10.6 | 19.8 | 63.0 | 235.7 | 351.7 | 607.3 | 18.9 | 140.4 | 95 | 88 |
| INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS ⁵ | | | | | | | | | | | | | | | |
| 1987 Census | 341 | 376 | 162 | 21.0 | 442.5 | 16.3 | 32.0 | 302.9 | 2 461.7 | 2 457.5 | 4 918.3 | 220.0 | 549.8 | 79 | 84 |
| 1986 ASM | (NA) | (NA) | (NA) | 23.1 | 471.3 | 18.1 | 34.5 | 326.0 | 2 473.2 | 2 884.1 | 5 353.2 | 147.0 | 710.0 | (NA) | (NA) |
| 1985 ASM | (NA) | (NA) | (NA) | 22.9 | 439.3 | 18.1 | 34.2 | 306.4 | 2 115.6 | 2 998.0 | 5 123.2 | 129.5 | 606.3 | (NA) | (NA) |
| 1984 ASM | (NA) | (NA) | (NA) | 22.6 | 416.9 | 17.9 | 34.3 | 289.5 | 1 894.2 | 2 995.5 | 4 896.3 | 96.4 | 626.9 | (NA) | (NA) |
| 1983 ASM | (NA) | (NA) | (NA) | 22.2 | 383.6 | 17.3 | 33.3 | 269.7 | 2 039.6 | 2 672.5 | 4 698.4 | 61.8 | 588.4 | (NA) | (NA) |
| 1982 Census | 325 | 376 | 155 | 22.0 | 371.5 | 17.4 | 33.3 | 260.8 | 1 736.9 | 2 532.7 | 4 268.8 | 67.5 | 582.5 | 68 | 83 |
| 1981 ASM | (NA) | (NA) | (NA) | 23.5 | 350.0 | 19.4 | 37.2 | 247.3 | 1 437.9 | 2 452.4 | 3 889.9 | 63.2 | 540.7 | (NA) | (NA) |
| 1980 ASM | (NA) | (NA) | (NA) | 24.8 | 344.6 | 20.7 | 38.8 | 249.6 | 1 384.9 | 2 511.3 | 3 906.2 | 68.7 | 576.1 | (NA) | (NA) |
| 1979 ASM | (NA) | (NA) | (NA) | 25.1 | 318.5 | 20.8 | 39.3 | 231.9 | 1 302.9 | 2 326.5 | 3 630.9 | 73.6 | 541.8 | (NA) | (NA) |
| 1978 ASM | (NA) | (NA) | (NA) | 25.6 | 291.8 | 20.6 | 39.1 | 216.8 | 1 243.1 | 2 104.1 | 3 342.2 | 67.5 | 526.3 | (NA) | (NA) |
| 1977 Census | 380 | 438 | 168 | 23.5 | 250.2 | 18.9 | 35.7 | 184.9 | 986.5 | 2 003.8 | 2 996.5 | 52.3 | 447.8 | 69 | 86 |
| 1976 ASM | (NA) | (NA) | (NA) | 19.3 | 180.2 | 15.8 | 30.2 | 129.3 | 1 068.7 | 1 168.7 | 1 654.4 | 36.6 | 278.1 | (NA) | (NA) |
| 1975 ASM | (NA) | (NA) | (NA) | 19.2 | 166.5 | 15.8 | 30.5 | 118.3 | 558.7 | 1 189.8 | 1 720.8 | 36.8 | 278.7 | (NA) | (NA) |
| 1974 ASM | (NA) | (NA) | (NA) | 19.3 | 160.1 | 16.1 | 31.6 | 110.5 | 470.4 | 1 118.0 | 1 586.7 | 39.5 | 256.2 | (NA) | (NA) |
| 1973 ASM | (NA) | (NA) | (NA) | 19.6 | 144.5 | 15.8 | 29.9 | 100.0 | 448.9 | 781.0 | 1 228.7 | 24.3 | 213.2 | (NA) | (NA) |
| 1972 Census | 429 | 495 | 191 | 20.8 | 146.2 | 16.6 | 32.4 | 102.2 | 428.0 | 738.7 | 1 166.7 | 43.4 | 210.5 | 80 | 78 |
| INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES ⁵ | | | | | | | | | | | | | | | |
| 1987 Census | 196 | 254 | 193 | 49.7 | 786.0 | 42.7 | 78.3 | 590.8 | 2 982.9 | 3 665.9 | 6 599.5 | 179.1 | 1 411.0 | 91 | 93 |
| 1986 ASM | (NA) | (NA) | (NA) | 46.4 | 701.0 | 40.1 | 70.7 | 526.7 | 2 648.6 | 3 218.6 | 5 885.7 | 196.4 | 1 331.2 | (NA) | (NA) |
| 1985 ASM | (NA) | (NA) | (NA) | 46.1 | 698.6 | 40.2 | 73.3 | 538.6 | 2 355.1 | 3 435.3 | 5 802.5 | 213.5 | 1 338.5 | | |

Table 1. Historical Statistics for the Industry: 1987 and Earlier Years—Con.

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix.]

| Year ¹ | Companies ² (no.) | All establishments ³ | | All employees | | Production workers | | | Value added by manufac- ture ⁴ (million dollars) | Cost of materials (million dollars) | Value of shipments (million dollars) | New capital expendi- tures ⁴ (million dollars) | End-of- year inventories ⁴ (million dollars) | Ratios | |
|--|---------------------------------|---------------------------------|---|-------------------|---------------------------------|--------------------|---------------------|-------------------------------|---|--|---|--|---|---------------------------------------|---------------------------------|
| | | Total (no.) | With 20 employ- ees or more (no.) | Number (1,000) | Payroll (million dollars) | Number (1,000) | Hours (millions) | Wages (million dollars) | | | | | | Speci- alization (per- cent) | Cover- age (per- cent) |
| INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES ⁵ —Con. | | | | | | | | | | | | | | | |
| 1977 Census ----- | 187 | 260 | 193 | 46.8 | 425.9 | 41.5 | 78.5 | 344.7 | 1 322.5 | 1 972.0 | 3 297.5 | 87.7 | 724.4 | 89 | 89 |
| 1976 ASM ----- | (NA) | (NA) | (NA) | 40.3 | 342.7 | 35.2 | 66.8 | 273.2 | 1 188.9 | 1 641.8 | 2 830.4 | 64.5 | 633.3 | (NA) | (NA) |
| 1975 ASM ----- | (NA) | (NA) | (NA) | 42.8 | 331.5 | 37.7 | 69.0 | 265.5 | 1 006.2 | 1 675.8 | 2 675.4 | 71.5 | 653.3 | (NA) | (NA) |
| 1974 ASM ----- | (NA) | (NA) | (NA) | 44.3 | 327.2 | 39.0 | 75.8 | 263.5 | 929.4 | 1 550.6 | 2 468.1 | 80.2 | 655.7 | (NA) | (NA) |
| 1973 ASM ----- | (NA) | (NA) | (NA) | 44.1 | 293.8 | 38.3 | 75.4 | 236.6 | 758.2 | 1 279.6 | 2 035.0 | 75.3 | 457.3 | (NA) | (NA) |
| 1972 Census ----- | 136 | 209 | 191 | 42.8 | 261.2 | 37.6 | 74.5 | 208.8 | 694.6 | 1 150.4 | 1 848.8 | 57.8 | 401.9 | 86 | 91 |
| INDUSTRY 2038, FROZEN SPECIALTIES, N.E.C. ^{5 7} | | | | | | | | | | | | | | | |
| 1987 Census ----- | 242 | 278 | 178 | 37.1 | 660.7 | 29.8 | 58.0 | 455.7 | 2 770.7 | 2 806.5 | 5 544.9 | 182.6 | 526.0 | 93 | 94 |

Note: Establishments of single unit companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. Data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were estimated based on administrative-record information from other agencies in canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1972, see 1972 Census of Manufactures, vol. II, table 1a of the Industry chapter.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete

canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1972, see 1972 Census of Manufactures, vol. II, table 1a of the Industry chapter.

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during year.

⁴Beginning with the 1982 Census of Manufactures, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior Censuses and annual surveys of manufactures in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, inventories and value added by manufacture are not comparable to prior-year data.

⁵Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change between finished products beginning- and end-of-year inventories.

⁶Estimates for new capital expenditures have associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

⁷Industry definition is new for 1987 Census of Manufactures. An explanation of the Standard Industrial Classification revision will appear in the final industry series text that supercedes this report.

Table 2. Product and Product Classes—Quantity and Value of Production by All Producers: 1987 and 1982

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). For meaning of abbreviations and symbols, see introductory text.]

| 1987 product code | Product | 1987 | | | 1982 | | |
|-------------------|--|--|-------------------------------|-------------------------|--|-------------------------------|-------------------------|
| | | Number of companies with production of \$100,000 or more | Total production ¹ | | Number of companies with production of \$100,000 or more | Total production ¹ | |
| | | | Quantity ² | Value (million dollars) | | Quantity ² | Value (million dollars) |
| 2032-- | CANNED SPECIALTIES | | | | | | |
| | Total ----- | (NA) | (X) | 4 458.6 | (NA) | (X) | 3 484.6 |
| 20321 -- | Canned baby foods, except cereal and biscuits ----- | (NA) | (X) | 666.7 | (NA) | (X) | 596.4 |
| 20321 11 | Fruits ----- mil lb.. | 2 | (D) | (D) | 3 | (D) | (D) |
| 20321 21 | Meats ----- do.. | 2 | (D) | (D) | 3 | (D) | (D) |
| 20321 31 | Vegetables ----- do.. | 2 | (D) | (D) | 3 | 150.1 | 66.5 |
| 20321 51 | Desserts (excluding 100 percent fruit products) ----- do.. | 2 | (D) | (D) | 3 | 151.4 | 65.6 |
| 20321 71 | Juices ----- | 6 | (X) | (D) | 3 | (X) | 115.8 |
| 20321 98 | Other canned baby foods, except cereal and biscuits, but including vegetable and vegetable-meat soups, etc. ----- mil lb.. | 4 | 128.1 | 116.5 | 4 | 225.6 | 102.8 |
| 20321 00 | Canned baby foods, n.s.k. ----- | (NA) | (X) | - | (NA) | (X) | - |
| 20322 -- | Canned soups, except frozen or seafood: ----- | | | | | | |
| 20322 00 | Canned soups, except frozen or seafood ----- | 18 | (X) | (³) | 24 | (¹) | (³) |
| 20323 -- | Canned dry beans ----- | (NA) | (X) | 895.3 | (NA) | (X) | 735.3 |
| | Beans with pork, including baked: ----- | | | | | | |
| 20323 70 | 7.1 oz to 13 oz (8 oz short, 8 oz tall, No. 1 picnic, etc.) ----- 1,000 cases/48.. | 8 | 7 586.2 | 118.2 | 6 | 1 700.0 | 21.1 |
| 20323 73 | 13.1 oz to 18 oz (No. 300, No. 303, etc.) ----- 1,000 cases/24.. | 21 | 20 106.6 | 225.0 | 26 | 25 600.0 | 195.2 ¹ |
| 20323 74 | 18.1 oz to 22 oz (No. 2, etc.) ----- do.. | 7 | 1 949.5 | 26.4 | 7 | 3 000.0 | 32.3 |
| 20323 75 | 22.1 oz to 27 oz (jumbo, etc.) ----- do.. | 3 | 401.3 | 4.7 | 5 | 200.0 | 2.3 |
| 20323 78 | 27.1 oz to 40 oz (No. 2-1/2 quart glass, etc.) ----- do.. | 16 | 3 953.9 | 58.9 | 14 | 3 700.0 | 54.4 |
| 20323 79 | Other sizes ----- | 14 | (X) | 65.7 | 17 | (X) | 77.1 |
| | Beans with sauce, vegetarian style, including baked: ----- | | | | | | |
| 20323 82 | 13.1 oz to 18 oz (No. 300, No. 303, etc.) ----- 1,000 cases/24.. | 14 | 3 963.8 | 34.9 | 14 | 3 800.0 | 31.4 |
| 20323 84 | Other sizes ----- | 17 | (X) | 45.1 | 11 | (X) | 39.2 |
| | Beans, all other dry varieties, including chili con carne containing less than 20 percent meat: ----- | | | | | | |
| 20323 86 | 13.1 oz to 18 oz (No. 300, No. 303, etc.) ----- 1,000 cases/24.. | 25 | 22 199.7 | 186.3 | 31 | 19 300.6 | 160.8 |
| 20323 91 | Other sizes ----- | 22 | (X) | 128.1 | 29 | (X) | 115.5 |
| 20323 00 | Canned dry beans, n.s.k. ----- | (NA) | (X) | 3.9 | (NA) | (X) | 6.0 |

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Production by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). For meaning of abbreviations and symbols, see introductory text]

| 1987 product code | Product | 1987 | | | 1982 | | |
|-------------------------|---|--|-------------------------------|-------------------------------|--|-------------------------------|-------------------------------|
| | | Number of companies with production of \$100,000 or more | Total production ¹ | | Number of companies with production of \$100,000 or more | Total production ¹ | |
| | | | Quantity ² | Value (million dollars) | | Quantity ² | Value (million dollars) |
| 2032-- | CANNED SPECIALTIES—Con. | | | | | | |
| 20324 -- | Other canned specialties and canned nationality foods ----- | (NA) | (X) | ³² 740.5 | (NA) | (X) | ³² 035.0 |
| 20324 61 | Spaghetti with meat ----- | 7 | (X) | (D) | 6 | (X) | (D) |
| 20324 62 | Spaghetti without meat ----- | 9 | (X) | (D) | 11 | (X) | 67.4 |
| 20324 68 | Chinese foods (bean sprouts, chop suey, etc.) ----- | 5 | (X) | (D) | 5 | (X) | (D) |
| 20324 91 | Mincemeat ----- mil lb. | 5 | (X) | 8.5 | 6 | (X) | 8.5 |
| 20324 93 | Spanish foods (Mexican rice, tortillas, enchiladas, etc.) ----- | 13 | (X) | 105.4 | 20 | (X) | 114.4 |
| 20324 94 | Ravioli ----- | 5 | (X) | 90.0 | 5 | (X) | 112.1 |
| 20324 96 | Macaroni with or without meat ----- | 7 | (X) | (D) | 5 | (X) | (D) |
| 20324 97 | Canned gravy ----- | 4 | (X) | (D) | | | |
| 20324 99 | Other canned specialties, including canned puddings (other than canned meats) ----- | 29 | (X) | 309.8 | 32 | (X) | 326.0 |
| 20324 00 | Other canned specialties and nationality foods, n.s.k. ----- | (NA) | (X) | 2.4 | (NA) | (X) | 7.8 |
| 20320 -- | Canned specialties, n.s.k. ----- | (NA) | (X) | 156.0 | (NA) | (X) | 117.9 |
| 20320 00 | Canned specialties, n.s.k., typically for establishments with 20 employees or more (see note) ----- | (NA) | (X) | 69.7 | (NA) | (X) | 69.6 |
| 20320 02 | Canned specialties, n.s.k., typically for establishments with less than 20 employees (see note) ----- | (NA) | (X) | 86.3 | (NA) | (X) | 48.3 |
| 2033-- | CANNED FRUITS AND VEGETABLES | | | | | | |
| | Total ----- | (NA) | (X) | 12 219.0 | (NA) | (X) | 9 255.3 |
| 20331 -- | Canned fruits (except baby foods) ----- | (NA) | (X) | 2 084.5 | (NA) | (X) | 1 590.6 |
| 20331 12 | Apples ----- 1,000 cases (basis 24/ 2 1/2 s) ----- | 14 | 3 825.0 | 40.3 | 13 | ⁴ (NA) | 40.9 |
| 20331 13 | Applesauce ----- do ----- | 18 | 19 751.1 | 238.8 | 25 | (NA) | 209.5 |
| 20331 15 | Apricots ----- do ----- | 5 | 1 321.4 | 26.3 | 7 | (NA) | 37.7 |
| 20331 18 | Berries, except cranberries ----- do ----- | 5 | (D) | (D) | 6 | (NA) | (D) |
| 20331 22 | Cherries, red pitted ----- do ----- | 9 | 562.7 | 10.1 | 15 | (NA) | 21.1 |
| 20331 24 | Cherries, sweet ----- do ----- | 12 | 2 748.0 | 28.1 | 13 | (NA) | 15.8 |
| 20331 28 | Cranberries and cranberry sauce ----- do ----- | 4 | 10 037.6 | 106.5 | 7 | (NA) | 57.0 |
| 20331 31 | Grapefruit segments ----- do ----- | 3 | (D) | (D) | 4 | (NA) | (D) |
| 20331 32 | Fruit cocktail ----- do ----- | 7 | 15 466.2 | 277.6 | 7 | (NA) | 204.7 |
| 20331 34 | Fruits for salads, including mixed fruits other than fruit cocktail ----- do ----- | 8 | 3 682.7 | 79.7 | 8 | (NA) | 28.9 |
| 20331 36 | Olives, ripe and green ripe, including stuffed (drained net weight) ----- do ----- | 10 | 11 326.0 | 280.2 | 11 | (NA) | 189.6 |
| 20331 38 | Peaches, including spiced ----- do ----- | 12 | 23 413.9 | 368.5 | 11 | (NA) | 274.8 |
| 20331 41 | Pears, including spiced ----- do ----- | 8 | 11 756.0 | 185.1 | 12 | (NA) | 134.1 |
| 20331 57 | Pineapple (all styles) ----- do ----- | 6 | (D) | (D) | 3 | (NA) | 125.9 |
| 20331 61 | Canned fruit pie mixes: ----- | | | | | | |
| | Apple ----- 1,000 cases (basis 24/ 2 1/2 s) ----- | 11 | 1 344.8 | 28.4 | 10 | (NA) | 34.9 |
| 20331 63 | Cherry ----- do ----- | 9 | 2 731.2 | 62.4 | 10 | (NA) | 81.0 |
| 20331 65 | Peach ----- do ----- | 6 | 219.7 | 6.0 | 7 | (NA) | 10.3 |
| 20331 69 | Other fruit pie mixes ----- do ----- | 13 | 1 480.5 | 40.2 | 16 | (NA) | 51.8 |
| 20331 97 | Other canned fruit ----- do ----- | 22 | 2 296.5 | 45.5 | 20 | (NA) | 26.1 |
| 20331 00 | Canned fruits (except baby foods), n.s.k. ----- | (NA) | (X) | 15.1 | (NA) | (X) | 13.0 |
| 20332 -- | Canned vegetables (except hominy and mushrooms) ----- | (NA) | (X) | 2 289.6 | (NA) | (X) | 2 047.2 |
| 20332 03 | Beans, green lima ----- 1,000 cases (basis 24/ 303 s) ----- | 8 | 3 613.7 | 28.9 | 1 2 | (NA) | 18.3 |
| 20332 05 | Beans, green and wax (including blue lake) ----- do ----- | 28 | 49 697.9 | 358.2 | (NA) | (NA) | 344.3 |
| 20332 15 | Carrots ----- do ----- | 14 | 4 652.5 | 35.0 | 18 | (NA) | 36.1 |
| 20332 35 | Vegetable combinations (mixed vegetables, succotash, carrots and peas, vegetable salad, etc.) ----- do ----- | 18 | 9 709.1 | 85.1 | 18 | (NA) | 77.2 |
| 20332 37 | Green peas ----- do ----- | 20 | 26 807.9 | 238.5 | 30 | (NA) | 187.4 |
| 20332 39 | Other peas (blackeye, crowder, purple hull, field, etc.) ----- do ----- | 4 | 1 576.6 | 14.0 | 8 | (NA) | 12.6 |
| 20332 53 | Pumpkin and squash, including pie mix ----- do ----- | 8 | 2 535.2 | 38.1 | 9 | (NA) | 32.2 |
| 20332 55 | Spinach ----- do ----- | 7 | 5 182.4 | 43.5 | 11 | (NA) | 46.2 |
| 20332 58 | Other leafy greens (turnip, kale, mustard, etc.) ----- do ----- | 3 | (D) | (D) | 4 | (NA) | (D) |
| 20332 73 | Pimientos ----- do ----- | 3 | (D) | (D) | 5 | (NA) | (D) |
| 20332 74 | Sweet potatoes, including pie mix ----- do ----- | 11 | 6 353.9 | 65.5 | 13 | (NA) | 70.1 |
| 20332 75 | White potatoes ----- do ----- | 16 | 6 141.8 | 46.5 | 22 | (NA) | 52.8 |
| 20332 76 | Sauerkraut ----- do ----- | 10 | 8 552.7 | 50.3 | 14 | (NA) | 38.0 |
| 20332 91 | Asparagus ----- do ----- | 13 | 3 983.2 | 80.2 | 12 | (NA) | 48.2 |
| 20332 93 | Beets ----- do ----- | 11 | 10 050.3 | 71.8 | 16 | (NA) | 69.2 |
| 20332 94 | Sweet corn, whole kernel ----- do ----- | 21 | 56 287.4 | 437.5 | 28 | (NA) | 372.2 |
| 20332 95 | Sweet corn, cream style ----- do ----- | 16 | 12 744.0 | 101.2 | 24 | (NA) | 98.3 |
| 20332 97 | Tomatoes, including stewed ----- do ----- | 35 | 45 451.2 | 429.1 | 42 | (NA) | 358.3 |
| 20332 99 | Other canned vegetables ----- do ----- | 25 | 5 782.5 | 104.5 | 40 | (NA) | 123.7 |
| 20332 00 | Canned vegetables (except hominy and mushrooms), n.s.k. ----- | (NA) | (X) | 32.2 | (NA) | (X) | 22.2 |
| 20333 -- | Canned hominy and mushrooms ----- | (NA) | (X) | 165.5 | (NA) | (X) | 139.0 |
| 20333 15 | Hominy ----- 1,000 cases (basis 24/ 303 s) ----- | 9 | 4 811.9 | 50.9 | 7 | (NA) | 10.3 |
| 20333 21 | Mushrooms ----- do ----- | 12 | 4 273.0 | 114.3 | 13 | (NA) | 128.3 |
| 20333 00 | Canned hominy and mushrooms, n.s.k. ----- | (NA) | (X) | .4 | (NA) | (X) | .5 |
| 20335 -- | Canned vegetable juices ----- | (NA) | (X) | 310.3 | (NA) | (X) | 270.3 |
| 20335 15 | Tomato juice, including combinations containing 70 percent tomato juice or more ----- mil gal. | 25 | 326.6 | 296.5 | 37 | (NA) | 265.8 |
| 20335 98 | Other vegetable juices ----- do ----- | 6 | 2.0 | 7.4 | 9 | (NA) | 3.8 |
| 20335 00 | Canned vegetable juices, n.s.k. ----- | (NA) | (X) | 6.5 | (NA) | (X) | .7 |

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Production by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). For meaning of abbreviations and symbols, see introductory text]

| 1987 product code | Product | 1987 | | | 1982 | | |
|-------------------------|---|--|-------------------------------|-------------------------------|--|-------------------------------|-------------------------------|
| | | Number of companies with production of \$100,000 or more | Total production ¹ | | Number of companies with production of \$100,000 or more | Total production ¹ | |
| | | | Quantity ² | Value (million dollars) | | Quantity ² | Value (million dollars) |
| 2033-- | CANNED FRUITS AND VEGETABLES—Con. | | | | | | |
| 20336 -- | Catsup and other tomato sauces, pastes, etc. | (NA) | (X) | 3 022.7 | (NA) | (X) | 2 174.4 |
| | Tomato sauces, except catsup, chili, barbecue sauce, and spaghetti sauce (excluding pulp, puree, or paste): 7.1 oz to 10 oz (8 oz tall, etc.) | | | | | | |
| 20336 14 | 1,000 cases/ 72 | 13 | 13 332.4 | 215.1 | 19 | 14 970.9 | 193.4 |
| 20336 15 | Other sizes | | | | | | |
| | 1,000 cases (basis 12/ 12 glass) .. | 27 | 61 707.3 | 319.0 | 3 5 | (NA) | 610.2 |
| 20336 22 | Catsup: 14 oz to 32 oz | | | | | | |
| | 1,000 cases/ 24 | 13 | 21 778.8 | 333.5 | 18 | 35 268.0 | 321.8 |
| 20336 23 | All other sizes, including individual serving sizes | | | | | | |
| | 1,000 cases (basis 12/ 12 glass) .. | 30 | 53 335.3 | 552.4 | 34 | (NA) | 247.6 |
| 20336 31 | Spaghetti, pizza, and marinara sauces, with or without other added ingredients, including those with less than 20 percent meat | 35 | 82 711.0 | 552.9 | (¹) | (¹) | (¹) |
| 20336 51 | Chili sauce | 22 | 12 736.3 | 88.6 | 25 | (NA) | 44.5 |
| 20336 55 | Barbecue sauce | 25 | 24 229.4 | 270.4 | 22 | (NA) | 149.5 |
| | Tomato paste: | | | | | | |
| 20336 61 | 4.1 oz to 7 oz (6 oz, etc.) | | | | | | |
| | 1,000 cases/ 48 | 5 | (D) | (D) | 7 | 7 423.1 | 81.1 |
| 20336 63 | 100.1 oz to 115 oz (No. 10) | | | | | | |
| | 1,000 cases/ 6 | 8 | (D) | (D) | 10 | 1 774.9 | 28.9 |
| 20336 65 | All other sizes, including bulk (24 percent NTSS equivalent) | | | | | | |
| | mil lb .. | 18 | 1 268.4 | 411.8 | 16 | *914.3 | 362.6 |
| 20336 91 | Tomato pulp and puree | | | | | | |
| | 1,000 cases (basis 24/ 303 s) .. | 20 | 15 166.6 | 113.3 | 25 | (NA) | 120.9 |
| 20336 00 | Catsup and other tomato sauces, pastes, etc., n.s.k. | (NA) | (X) | 18.5 | (NA) | (X) | 14.1 |
| 20338 -- | Jams, jellies, and preserves | (NA) | (X) | 664.1 | (NA) | (X) | 603.0 |
| | Jams and preserves, pure: | | | | | | |
| 20338 11 | Strawberry | 23 | 223.5 | 156.1 | 28 | (NA) | 136.5 |
| 20338 15 | Other | 27 | 228.9 | 156.2 | 33 | (NA) | 167.4 |
| | Jellies, pure: | | | | | | |
| 20338 21 | Grape | 20 | 180.3 | 119.7 | 28 | (NA) | 138.3 |
| 20338 25 | Other | 24 | 95.5 | 60.3 | 32 | (NA) | 74.1 |
| 20338 31 | Imitation jellies, jams, and preserves | 8 | 55.1 | 46.2 | 6 | (NA) | (D) |
| 20338 41 | Marmalades | 8 | 18.9 | 15.1 | 11 | (NA) | (D) |
| 20338 51 | Fruit butter | 8 | 27.4 | 34.7 | 9 | (NA) | 12.1 |
| 20338 61 | Maraschino cherries, excluding glace and candied | 8 | 10.7 | 64.6 | 6 | (S) | 31.4 |
| 20338 00 | Jams, jellies, and preserves, n.s.k. | (NA) | (X) | 11.1 | (NA) | (X) | 10.8 |
| 2033A -- | Canned fruit juices, nectars, and concentrates | (NA) | (X) | 2 342.9 | (NA) | (X) | 1 409.9 |
| | Juices and nectars, single strength: | | | | | | |
| 2033A 11 | Apple | 35 | 173.8 | 355.0 | 40 | (NA) | 317.4 |
| 2033A 25 | Orange | 32 | 1 275.0 | 1 196.6 | 31 | (NA) | 520.1 |
| 2033A 31 | Grapefruit | 26 | 67.1 | 224.7 | 26 | (NA) | 175.7 |
| 2033A 41 | Prune | 9 | 6.8 | 24.5 | (NA) | (NA) | 23.4 |
| 2033A 78 | Other whole fruit juices and mixtures of whole fruit juices | 41 | 118.0 | 337.7 | (NA) | (NA) | 289.8 |
| 2033A 93 | Nectars | 5 | 3.4 | 10.0 | 6 | (NA) | 13.1 |
| 2033A 94 | Fruit juices, concentrated, hot pack | | | | | | |
| | mil gal snl st equiv .. | 15 | 38.3 | 177.1 | 9 | 9.9 | 40.4 |
| 2033A 00 | Canned fruit juices, nectars, and concentrates, n.s.k. | (NA) | (X) | 17.3 | (NA) | (X) | 30.0 |
| 2033B -- | Fresh fruit juices and nectars, single strength | (NA) | (X) | 942.4 | (NA) | (NA) | 652.2 |
| | Juices and nectars, single strength: | | | | | | |
| 2033B 12 | Orange | 124 | 271.6 | 480.2 | } | (NA) | (NA) |
| 2033B 19 | Other | 66 | 123.2 | 377.8 | | | |
| 2033B 21 | Concentrated fruit juice, except for fountain use | | | | | | |
| | mil gal snl st equiv .. | 19 | 29.3 | 84.5 | | | 652.2 |
| 2033B 00 | Fresh fruit juices and nectars, single strength, n.s.k. | (NA) | (X) | - | | | |
| 20330 -- | Canned fruits and vegetables, n.s.k. | (NA) | (X) | 396.8 | (NA) | (X) | 368.7 |
| 20330 00 | Canned fruits and vegetables, preserves, jams, jellies, and juices, n.s.k., typically for establishments with 20 employees or more (see note) | (NA) | (X) | 266.6 | (NA) | (X) | 262.7 |
| 20330 02 | Canned fruits and vegetables, preserves, jams, jellies, and juices, n.s.k., typically for establishments with less than 20 employees (see note) | (NA) | (X) | 942.4 | (NA) | (NA) | 106.0 |

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Production by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). For meaning of abbreviations and symbols, see introductory text]

| 1987 product code | Product | 1987 | | | 1982 | | |
|-------------------------|---|--|--------------------------------|-------------------------------|--|--------------------------------|-------------------------------|
| | | Number of companies with shipments of \$100,000 or more | Product shipments ¹ | | Number of companies with shipments of \$100,000 or more | Product shipments ¹ | |
| | | | Quantity ² | Value (million dollars) | | Quantity ² | Value (million dollars) |
| 2034- -- | DEHYDRATED FRUITS, VEGETABLES, AND SOUPS | | | | | | |
| | Total | (NA) | (X) | 2 050.2 | (NA) | (X) | 1 672.0 |
| 20342 -- 20342 00 | Soup mixes, dried: Soup mixes (including oriental), dried and dehydrated, and freeze-dried mil lb.. | 16 | 210.0 | 451.4 | 31 | (S) | 332.8 |
| 20343 -- | Dried and dehydrated fruits and vegetables (including freeze- dried) except soup mixes | (NA) | (X) | 1 498.9 | (NA) | (X) | FF1 247.3 |
| | Fruits, dried and dehydrated: | | | | | | |
| 20343 13 | Raisins mil lb.. | 10 | 349.9 | 333.7 | 9 | 335.1 | 342.9 |
| 20343 15 | Prunes do.. | 9 | 313.4 | 265.2 | 11 | 253.0 | 178.8 |
| 20343 18 | Dates do.. | 3 | 5.1 | 7.4 | 4 | 7.3 | 14.7 |
| 20343 21 | Apples do.. | 7 | 43.6 | 56.9 | 11 | 25.3 | 27.4 |
| 20343 23 | Other dried and dehydrated fruits and fruit peels, including fruit flour, meal, and powder do.. | 20 | 124.1 | 195.6 | 13 | 42.5 | 62.1 |
| | Dried and dehydrated potatoes (except potato flour), not packaged with other ingredients: | | | | | | |
| 20343 29 | Consumer sizes (1 lb or less) mil lb.. | 6 | (D) | (D) | 6 | (D) | (D) |
| 20343 31 | Commercial sizes (more than 1 lb) do.. | 6 | (D) | (D) | (NA) | (D) | (D) |
| | Vegetables, dried and dehydrated (except potatoes): | | | | | | |
| 20343 37 | Onions mil lb.. | 5 | 134.0 | 133.8 | 8 | 160.5 | 177.6 |
| 20343 38 | Vegetable flour, including potato flour do.. | 2 | 1.2 | 3.5 | - | - | - |
| 20343 41 | Other dried and dehydrated vegetables do.. | 8 | 128.5 | 330.0 | 17 | 112.2 | 162.0 |
| 20343 00 | Dried and dehydrated fruits and vegetables (including freeze-dried) except soup mixes, n.s.k. | (NA) | (X) | - | (NA) | (X) | 14.5 |
| 20340 -- | Dehydrated fruits, vegetables, and soups, n.s.k. | (NA) | (X) | 99.9 | (NA) | (X) | 91.8 |
| 20340 00 | Dehydrated fruits, vegetables, and soups, n.s.k., typically for establishments with 5 employees or more (see note) | (NA) | (X) | 38.2 | (NA) | (X) | 64.6 |
| 20340 02 | Dehydrated fruits, vegetables, and soups, n.s.k., typically for establishments with less than 5 employees (see note) | (NA) | (X) | 61.7 | (NA) | (X) | 27.2 |
| 1987 product code | Product | 1987 | | | 1982 | | |
| | | Number of companies with production of \$100,000 or more | Total production ¹ | | Number of companies with production of \$100,000 or more | Total production ¹ | |
| | | | Quantity ² | Value (million dollars) | | Quantity ² | Value (million dollars) |
| 2035- -- | PICKLES, SAUCES, AND SALAD DRESSINGS | | | | | | |
| | Total | (NA) | (X) | 4 488.4 | (NA) | (X) | 3 252.7 |
| 20352 -- | Pickles and other pickled products | (NA) | (X) | 1 000.2 | (NA) | (X) | 694.5 |
| | Finished pickles and other pickled products: | | | | | | |
| | Cucumber: | | | | | | |
| 20352 11 | Dill mil gal.. | 26 | 93.4 | 392.8 | 36 | 85.8 | 285.2 |
| 20352 13 | Sour do.. | 10 | 12.2 | 45.2 | 15 | *6.5 | 26.8 |
| 20352 15 | Sweet do.. | 17 | 110.3 | 164.4 | 27 | *27.4 | 108.7 |
| 20352 19 | Refrigerated pickles, including overnight, half sour, artificially acidified, etc. do.. | 15 | 27.7 | 87.8 | 17 | 20.3 | 69.7 |
| 20352 31 | Horseradish (excluding sauce) do.. | 6 | 2.0 | 12.7 | 41 | *34.7 | 131.1 |
| 20352 34 | Other finished pickles and pickled products (including mixes, relishes, peppers, onions, mushrooms, etc.) do.. | 41 | 42.9 | 216.0 | | | |
| | Unfinished pickled products: | | | | | | |
| 20352 71 | Unfinished pickles (salt stock) mil gal.. | 9 | 11.9 | 12.8 | 11 | 21.0 | 22.8 |
| 20352 75 | Brined cherries do.. | 6 | 3.2 | 21.6 | 9 | (S) | 18.4 |
| 20352 98 | Other bulk pickled products, such as mushrooms, sauerkraut, etc. do.. | 12 | 14.1 | 35.6 | 13 | *5.6 | 17.9 |
| 20352 00 | Pickles and other pickled products, n.s.k. | (NA) | (X) | 11.4 | (NA) | (X) | 13.9 |
| 20353 -- | Prepared sauces (except tomato) | (NA) | (X) | 901.6 | (NA) | (X) | 540.0 |
| 20353 11 | Prepared mustard mil gal.. | 44 | 77.9 | 256.3 | 43 | *50.6 | 138.7 |
| 20353 51 | Other sauces (worcestershire, soy, horseradish, meat, vegetable, seafood, etc.) do.. | 87 | 124.4 | 639.6 | 60 | **99.9 | 401.0 |
| 20353 00 | Prepared sauces (except tomato), n.s.k. | (NA) | (X) | 5.8 | (NA) | (X) | .3 |
| 20354 -- | Mayonnaise, salad dressings, and sandwich spreads | (NA) | (X) | 2 284.6 | (NA) | (X) | 1 815.4 |
| | Spoon type dressing: | | | | | | |
| 20354 11 | Salad dressing mil gal.. | 48 | 107.8 | 590.2 | 53 | 91.4 | 525.9 |
| 20354 23 | Mayonnaise do.. | 40 | 117.1 | 508.1 | 54 | 177.2 | 687.3 |
| 20354 29 | Other spoon type dressing, including sandwich spreads, refrigerated dressings, and all other semisolid type dressing do.. | 34 | 122.8 | 683.7 | 41 | *28.0 | 126.3 |
| 20354 35 | Pourable dressing (including reduced calorie, cheese, vinegar and oil, etc.) do.. | 39 | 56.6 | 493.1 | (NA) | 86.9 | 464.8 |
| 20354 00 | Mayonnaise, salad dressings, and sandwich spreads, n.s.k. | (NA) | (X) | 9.5 | (NA) | (X) | 11.2 |
| 20350 -- | Pickles, sauces, and salad dressings, n.s.k. | (NA) | (X) | 302.0 | (NA) | (X) | 202.7 |
| 20350 00 | Pickles, sauces, and salad dressings, n.s.k., typically for establishments with 10 employees or more (see note) | (NA) | (X) | 131.6 | (NA) | (X) | 119.5 |
| 20350 02 | Pickles, sauces, and salad dressings, n.s.k., typically for establishments with less than 10 employees (see note) | (NA) | (X) | 170.3 | (NA) | (X) | 83.2 |

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Production by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). For meaning of abbreviations and symbols, see introductory text]

| 1987 product code | Product | 1987 | | | 1982 | | |
|-------------------------|---|--|-------------------------------|-------------------------------|--|-------------------------------|-------------------------------|
| | | Number of companies with production of \$100,000 or more | Total production ¹ | | Number of companies with production of \$100,000 or more | Total production ¹ | |
| | | | Quantity ² | Value (million dollars) | | Quantity ² | Value (million dollars) |
| 2037-- | FROZEN FRUITS AND VEGETABLES | | | | | | |
| | Total | (NA) | (X) | 6 233.9 | (NA) | (X) | 5 062.0 |
| 20371 -- | Frozen fruits, juices, ades, drinks, and cocktails | (NA) | (X) | 2 485.5 | (NA) | (X) | 1 860.4 |
| 20371 35 | Frozen fruits: | | | | | | |
| 20371 41 | Strawberries.....mil lb..... | 19 | 228.5 | 126.0 | 18 | 313.8 | 94.9 |
| 20371 55 | Red sour cherries.....do..... | 12 | 86.9 | 42.9 | 11 | 46.7 | 23.5 |
| 20371 57 | Apples and applesauce.....do..... | 9 | 98.5 | 53.7 | 10 | *117.8 | 35.2 |
| | Berries, including blueberries, raspberries, blackberries, etc.....do..... | 15 | 64.9 | 60.0 | 19 | 59.2 | 45.4 |
| 20371 61 | Other frozen fruits.....do..... | 23 | 189.4 | 113.0 | 25 | 167.5 | 99.3 |
| | Frozen fruit and berry juices, concentrated: | | | | | | |
| | Orange juice: | | | | | | |
| 20371 62 | Consumer and institutional sizes: | | | | | | |
| | 6 oz or less.....1,000 cases/ 48..... | 17 | 11 966.3 | 182.2 | 13 | 9 400.0 | 123.8 |
| 20371 65 | 6.1 oz to 12 oz.....1,000 cases/ 24..... | 11 | 21 287.5 | 430.6 | 12 | 22 200.0 | 332.7 |
| 20371 66 | 12.1 oz to 24 oz.....do..... | 10 | 8 032.2 | 164.1 | 11 | 6 500.0 | 137.0 |
| 20371 68 | 24.1 oz or more.....1,000 cases..... | 12 | 6 733.5 | 167.5 | 16 | 5 100.0 | 109.6 |
| 20371 69 | Bulk.....mil lb solid..... | 20 | 362.5 | 503.8 | 20 | 254.9 | 346.1 |
| 20371 70 | Grape juice: | | | | | | |
| | 4.1 oz to 7 oz.....1,000 cases/ 48..... | 8 | 1 832.4 | 18.4 | 6 | 600.0 | 6.4 |
| 20371 72 | 10.1 oz to 13 oz.....1,000 cases/ 24..... | 7 | 2 499.0 | 32.1 | 7 | 2 500.0 | 39.3 |
| 20371 74 | Other sizes.....mil lb solid..... | 5 | 11.1 | 11.1 | 5 | (D) | (D) |
| 20371 80 | Grapefruit juice.....do..... | 22 | 68.6 | 120.1 | 19 | 52.3 | 55.6 |
| 20371 83 | Other frozen fruit and berry juice, concentrated.....do..... | 20 | 174.4 | 255.1 | 26 | 146.0 | 206.5 |
| | Frozen fruit ades, drinks, and cocktails, concentrated: | | | | | | |
| | Lemonade: | | | | | | |
| 20371 85 | 4.1 oz to 7 oz.....1,000 cases/ 48..... | 5 | 1 641.4 | 14.8 | 6 | 1 500.0 | 10.3 |
| 20371 86 | 10.1 oz to 13 oz.....1,000 cases/ 24..... | 7 | 7 878.7 | 51.8 | 6 | 3 800.0 | 32.7 |
| 20371 87 | Other sizes.....mil lb solid..... | 6 | 11.3 | 11.7 | 3 | .6 | 5.5 |
| 20371 94 | All other ades, drinks, and cocktails.....do..... | 10 | 114.8 | 91.2 | 8 | (D) | (D) |
| 20371 97 | Citrus pulp.....1,000 s tons..... | 16 | 310.3 | 35.2 | 18 | 536.5 | 56.0 |
| 20371 00 | Frozen fruits, juices, ades, drinks, and cocktails, n.s.k. | (NA) | (X) | .1 | (NA) | (X) | 5.1 |
| 20372 -- | Frozen vegetables | (NA) | (X) | 3 628.3 | (NA) | (X) | 3 089.7 |
| 20372 11 | Asparagus.....mil lb..... | 6 | 21.1 | 30.7 | 9 | 15.3 | 26.6 |
| 20372 13 | Beans, green, regular, and french cut.....do..... | 17 | 261.9 | 111.1 | 22 | 296.2 | 127.0 |
| 20372 21 | Lima beans; baby, emerald, and fordhook.....do..... | 19 | 110.4 | 52.6 | 18 | **124.5 | 63.3 |
| 20372 25 | Broccoli.....do..... | 18 | 330.0 | 174.6 | 15 | *356.9 | 193.8 |
| 20372 31 | Brussels sprouts.....do..... | 9 | 52.8 | 30.2 | 11 | 58.5 | 36.5 |
| 20372 33 | Carrots.....do..... | 25 | 272.0 | 78.0 | 21 | 186.6 | 48.9 |
| 20372 35 | Cauliflower.....do..... | 20 | 126.7 | 73.4 | 20 | 103.2 | 67.2 |
| 20372 41 | Green peas.....do..... | 28 | 375.2 | 153.5 | 25 | 390.8 | 160.0 |
| 20372 42 | Spinach.....do..... | 18 | 175.3 | 64.8 | 15 | 173.1 | 55.7 |
| 20372 45 | Vegetable combinations (succotash, peas and carrots, mixed vegetables, vegetables with pasta, etc.).....do..... | 24 | 612.8 | 277.5 | 18 | 263.7 | 168.1 |
| 20372 48 | French-fried potatoes.....do..... | 15 | 4 735.1 | 1 465.6 | 21 | 3 676.4 | 1 167.8 |
| 20372 49 | Other potato products (patties, puffs, etc.).....do..... | 20 | 905.1 | 387.8 | 28 | 717.8 | 288.8 |
| 20372 53 | Sweet cut corn, yellow.....do..... | 24 | 457.7 | 192.2 | 21 | 474.4 | 199.3 |
| 20372 55 | Sweet cob corn, yellow.....do..... | 12 | 249.6 | 106.3 | 14 | 317.3 | 117.6 |
| 20372 61 | Southern greens; collards, kale, mustard, and turnip.....do..... | 6 | 76.8 | 26.4 | 10 | 111.2 | 35.5 |
| 20372 98 | Other frozen vegetables.....do..... | 43 | 685.7 | 393.9 | 52 | *604.2 | 327.3 |
| 20372 00 | Frozen vegetables, n.s.k. | (NA) | (X) | 9.7 | (NA) | (X) | 6.4 |
| 20370 -- | Frozen fruits and vegetables, n.s.k. | (NA) | (X) | 120.1 | (NA) | (X) | 111.9 |
| 20370 00 | Frozen fruits and vegetables, n.s.k., typically for establishments with 20 employees or more (see note) | (NA) | (X) | 76.8 | (NA) | (X) | 87.5 |
| 20370 02 | Frozen fruits and vegetables, n.s.k., typically for establishments with less than 20 employees (see note) | (NA) | (X) | 43.3 | (NA) | (X) | 24.4 |
| 2038-- | FROZEN SPECIALTIES, N.E.C. | | | | | | |
| | Total | (NA) | (X) | 5 176.1 | (NA) | (X) | 3 124.7 |
| 20382 -- | Frozen dinners; beef, pork, and poultry pies; and nationality foods | (NA) | (X) | 4 029.5 | (NA) | (X) | 2 356.6 |
| 20382 23 | Frozen dinners.....mil lb..... | 20 | 784.6 | 980.5 | 15 | 572.1 | 475.9 |
| 20382 26 | Frozen entrees and side dishes (including macaroni and macaroni-type products, but excluding rice dishes and nationality foods).....do..... | 44 | 818.1 | 922.4 | 27 | (S) | 684.5 |
| 20382 28 | Frozen rice dishes.....do..... | 2 | (D) | (D) | | | |
| 20382 31 | Frozen beef and pork pies.....do..... | 11 | 68.3 | 56.7 | 11 | 79.4 | 41.7 |
| 20382 35 | Frozen poultry pies.....do..... | 10 | *161.6 | *127.6 | 11 | 241.1 | 119.4 |
| | Frozen nationality foods: | | | | | | |
| 20382 40 | Pizza.....mil lb..... | 37 | 829.3 | 1 215.0 | 38 | 714.7 | 725.5 |
| 20382 51 | Chinese.....do..... | 10 | 49.7 | 64.1 | 4 | 24.0 | 26.9 |
| 20382 53 | Mexican.....do..... | 24 | 283.4 | 315.8 | 26 | 275.5 | 180.4 |
| 20382 55 | Italian, excluding pizza.....do..... | 25 | 217.2 | 286.8 | 16 | 80.6 | 64.0 |
| 20382 57 | All other frozen nationality foods.....do..... | 14 | 67.9 | 50.1 | 8 | **29.0 | 26.4 |
| 20382 00 | Frozen dinners, beef, pork, poultry pies, and nationality foods, n.s.k. | (NA) | (X) | 10.4 | (NA) | (X) | 11.8 |

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Production by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). For meaning of abbreviations and symbols, see introductory text.]

| 1987 product code | Product | 1987 | | | 1982 | | |
|-------------------------|--|--|-------------------------------|-------------------------------|--|-------------------------------|-------------------------------|
| | | Number of companies with production of \$100,000 or more | Total production ¹ | | Number of companies with production of \$100,000 or more | Total production ¹ | |
| | | | Quantity ² | Value (million dollars) | | Quantity ² | Value (million dollars) |
| 2038-- | FROZEN SPECIALTIES, N.E.C.—Con. | | | | | | |
| 20384 -- | Other frozen specialties, n.e.c. | (NA) | (X) | 978.6 | (NA) | (X) | 624.3 |
| 20384 51 | Whipped topping (dairy product substitute, dairy or nondairy base) mil lb.. | 7 | 458.0 | 270.3 | 10 | 226.4 | 190.6 |
| 20384 59 | Other frozen dairy product substitutes, except mellorine and similar products | 4 | (X) | 7.1 | 9 | (X) | 77.5 |
| 20384 63 | Frozen waffles, pancakes, and french toast mil lb.. | 8 | 177.9 | 170.3 | (NA) | (¹) | (¹) |
| 20384 69 | Other frozen specialties, except seafood, including soups, etc. do.. | 42 | 498.3 | 530.9 | 44 | *562.8 | 355.8 |
| 20384 00 | Other frozen specialties, n.s.k. | (NA) | (X) | - | (NA) | (X) | .4 |
| 20380 -- | Frozen specialties, n.e.c., n.s.k. | (NA) | (X) | 168.0 | (NA) | (X) | 143.8 |
| 20380 00 | Frozen specialties n.e.c., n.s.k., typically for establishments with 20 employees or more (see note) | (NA) | (X) | 110.6 | (NA) | (X) | 79.9 |
| 20380 02 | Frozen specialties n.e.c., n.s.k., typically for establishments with less than 20 employees (see note) | (NA) | (X) | 57.4 | (NA) | (X) | 63.9 |

Note: In 1987 Census of Manufactures, data for establishments of small single unit companies with up to 20 employees were estimated from administrative-record data rather than data actually collected from respondents. Employment cutoffs used for administrative-records for each industry and shipments figures are included in code ending with "002". In both 1987 and 1982 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (five-digit) followed by "00" or to appropriate product group code (four-digit) followed by "000".

¹Data reported by all producers, not just those with shipments of \$100,000 or more.

²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

³Data for codes 2032200 and 20324-- were combined to avoid disclosure of figures for individual companies.

⁴For 1982, "Cases" were not defined as to size or number per case. Therefore, 1982 Quantities are not comparable to those collected for 1987.

⁵For 1987, data for product code 2038228 was included with product code 2038235.

Table 3. Materials Consumed by Kind: 1987 and 1982

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text.]

| 1987 material code | Material | 1987 | | 1982 | |
|--------------------------|--|-----------------------|--|-----------------------|--|
| | | Quantity ¹ | Delivered cost (million dollars) | Quantity ¹ | Delivered cost (million dollars) |
| | INDUSTRY 2032, CANNED SPECIALTIES | | | | |
| | Materials, ingredients, containers, and supplies | (X) | 2 551.7 | (X) | 2 194.7 |
| 017011 | Fresh fruit 1,000 s tons.. | 200.3 | 39.1 | 110.1 | 21.0 |
| | Fresh vegetables: | | | | |
| 016111 | Green peas 1,000 s tons.. | (S) | 1.9 | *9.5 | 2.9 |
| 013411 | White potatoes do.. | 90.2 | 16.8 | 63.3 | 9.8 |
| 016141 | Tomatoes do.. | 405.2 | 52.9 | 123.2 | 9.8 |
| 016131 | Sweet corn do.. | 5.3 | 1.2 | 68.6 | 4.6 |
| 016121 | Green or wax beans do.. | 37.1 | 7.2 | 30.6 | 5.2 |
| 018211 | Mushrooms mil lb.. | (D) | (D) | (³) | (³) |
| 016191 | Other fresh vegetables 1,000 s tons.. | (D) | (D) | *244.5 | 35.4 |
| | Sweeteners: | | | | |
| 204604 | High fructose corn syrup in terms of solids (HFCS) mil lb.. | *87.8 | 10.4 | (X) | (³) |
| 204611 | Crystalline fructose (dry fructose) do.. | .4 | .2 | (X) | (³) |
| 204612 | Dextrose and corn syrup, including corn syrup solids in terms of dry weight do.. | 75.1 | 11.4 | (X) | (³) |
| 206011 | Sugar (cane and beet) in terms of sugar solids 1,000 s tons.. | 48.7 | 23.6 | *67.7 | 32.2 |
| | Other materials, ingredients, containers, and supplies: | | | | |
| 203413 | Dried beans 1,000 s tons.. | 306.5 | 146.9 | 278.7 | 161.1 |
| 204110 | Wheat flour 1,000 cwt.. | 1 949.1 | 19.6 | 1 536.2 | 19.5 |
| 207006 | Fats and oils, all types mil lb.. | 127.9 | 38.4 | 74.3 | 25.8 |
| 201013 | Fresh, frozen, and prepared meats, other than poultry do.. | 239.0 | 240.8 | 196.0 | 196.9 |
| 201501 | Dressed poultry dressed wt mil lb.. | 54.9 | 88.4 | 40.7 | 44.6 |
| 203361 | Tomato paste (24 percent NTS equivalent) mil lb.. | 466.0 | 186.9 | 317.1 | 109.1 |
| 203702 | Frozen vegetables (for further processing) do.. | 143.9 | 81.6 | 77.0 | 55.7 |
| 275001 | Printed labels (X) | (X) | 47.6 | (X) | 42.2 |
| 190003 | Flexible packaging materials (including retort pouches) (X) | (X) | 33.0 | (X) | 19.3 |
| | Containers: | | | | |
| 322101 | Glass 1,000 gross.. | 7 466.1 | 148.0 | **13 247.4 | 213.1 |
| 265001 | Paperboard containers, boxes, and corrugated paperboard (X) | (X) | 91.8 | (X) | 75.3 |
| 341101 | Metal cans (X) | (X) | 502.9 | (X) | 604.9 |
| 970099 | All other materials, ingredients, containers, and supplies (X) | (X) | 552.2 | (X) | 5434.9 |
| 971000 | Material, ingredients, containers, and supplies, n.s.k. ² | (X) | 81.8 | (X) | 71.4 |

See footnotes at end of table.

Table 3. Materials Consumed by Kind: 1987 and 1982—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

| 1987 material code | Material | 1987 | | 1982 | |
|--|--|-----------------------|--|-----------------------|--|
| | | Quantity ¹ | Delivered cost (million dollars) | Quantity ¹ | Delivered cost (million dollars) |
| INDUSTRY 2033, CANNED FRUITS AND VEGETABLES | | | | | |
| | Materials, ingredients, containers, and supplies ----- | (X) | 5 946.7 | (X) | 5 384.2 |
| | Fresh fruit: | | | | |
| 017411 | Oranges ----- 1,000 s tons.. | 1 063.0 | 230.7 | 1 895.9 | 192.9 |
| 017511 | Apples ----- do.. | 977.9 | 111.6 | 1 388.2 | 156.7 |
| 017515 | Apricots ----- do.. | 42.4 | 12.3 | 52.6 | 14.3 |
| 017211 | Grapes ----- do.. | 384.1 | 82.8 | 315.3 | 61.8 |
| 017521 | Peaches ----- do.. | 442.9 | 97.5 | 578.5 | 101.1 |
| 017525 | Pears ----- do.. | 375.2 | 69.3 | 310.6 | 44.3 |
| 017911 | Pineapples ----- do.. | 362.6 | 53.7 | 441.7 | 44.4 |
| 017412 | Grapefruit ----- do.. | 267.8 | 51.6 | **607.0 | 27.3 |
| 017021 | Other fresh fruits ----- do.. | 376.7 | 144.3 | **429.8 | 180.4 |
| | Fresh vegetables: | | | | |
| 016111 | Green peas ----- 1,000 s tons.. | 252.0 | 60.4 | 256.7 | 53.5 |
| 013411 | White potatoes ----- do.. | 118.4 | 17.6 | 121.5 | 9.5 |
| 016141 | Tomatoes ----- do.. | 7 393.4 | 454.4 | 6 617.8 | 449.0 |
| 016131 | Sweet corn ----- do.. | 1 646.3 | 117.4 | 1 639.2 | 94.2 |
| 016121 | Green or wax beans ----- do.. | 427.2 | 67.8 | *448.7 | 60.8 |
| 018211 | Mushrooms ----- mil lb.. | 83.3 | 59.7 | *113.2 | 69.6 |
| 016191 | Other fresh vegetables ----- 1,000 s tons.. | 997.2 | 153.6 | **1 138.3 | 108.5 |
| | Sweeteners: | | | | |
| 204604 | High fructose corn syrup in terms of solids (HFCS) ----- mil lb.. | 705.8 | 82.0 | (X) | (³) |
| 204611 | Crystalline fructose (dry fructose) ----- do.. | 37.5 | 4.4 | (X) | (³) |
| 204612 | Dextrose and corn syrup, including corn syrup solids in terms of dry weight ----- do.. | 550.4 | 56.1 | (X) | (³) |
| 206011 | Sugar (cane and beet) in terms of sugar solids ----- 1,000 s tons.. | 127.6 | 59.2 | *332.8 | 126.6 |
| | Other materials, ingredients, containers, and supplies: | | | | |
| 203413 | Dried beans ----- 1,000 s tons.. | 61.6 | 15.6 | 40.4 | 20.9 |
| 207006 | Fats and oils, all types ----- mil lb.. | 74.9 | 16.7 | **69.9 | 21.8 |
| 203411 | Dried fruit ----- 1,000 s tons.. | 13.7 | 12.8 | 31.5 | 30.4 |
| 203348 | Concentrated fruit juices ----- mil gal.. | 123.4 | 576.6 | *53.4 | 319.0 |
| 203361 | Tomato paste (24 percent NTS equivalent) ----- mil lb.. | 392.2 | 165.2 | 412.1 | 148.2 |
| 203701 | Frozen fruit (for further processing) ----- do.. | 195.1 | 96.7 | *81.4 | 89.2 |
| 203702 | Frozen vegetables (for further processing) ----- do.. | 103.7 | 14.7 | 5.7 | 4.4 |
| 275001 | Printed labels ----- (X) | (X) | 55.9 | (X) | 61.3 |
| 190003 | Flexible packaging materials (including retort pouches) ----- (X) | (X) | 82.0 | (X) | 50.3 |
| | Containers: | | | | |
| 265001 | Paperboard containers, boxes, and corrugated paperboard ----- (X) | (X) | 216.9 | (X) | 145.0 |
| 322101 | Glass ----- 1,000 gross.. | 31 482.4 | 453.2 | **22 921.6 | 419.9 |
| 341101 | Metal cans ----- (X) | (X) | 1 079.8 | (X) | 1 215.9 |
| 970099 | All other materials, ingredients, containers, and supplies ----- (X) | (X) | 914.2 | (X) | *753.2 |
| 971000 | Materials, ingredients, containers, and supplies, n.s.k. ² ----- (X) | (X) | 260.0 | (X) | 309.8 |
| INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS | | | | | |
| | Materials, ingredients, containers, and supplies ----- | (X) | 849.9 | (X) | 900.7 |
| 016101 | Fresh vegetables ----- 1,000 s tons.. | 1 334.9 | 93.4 | 2 062.5 | 228.9 |
| 017011 | Fresh fruits ----- do.. | 160.3 | 42.6 | **265.5 | 27.7 |
| 203411 | Dried fruits ----- do.. | 308.2 | 311.3 | 297.0 | 338.5 |
| 206011 | Sugar (cane and beet) ----- do.. | 4.6 | 2.5 | *19.1 | 8.8 |
| 265001 | Paperboard containers, boxes, and corrugated paperboard ----- (X) | (X) | 87.8 | (X) | 59.7 |
| 970099 | All other materials, ingredients, containers, and supplies ----- (X) | (X) | 261.9 | (X) | 178.5 |
| 971000 | Materials, ingredients, containers, and supplies n.s.k. ² ----- (X) | (X) | 50.1 | (X) | 58.6 |
| INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS | | | | | |
| | Materials, ingredients, containers, and supplies ----- | (X) | 2 296.7 | (X) | 2 264.6 |
| 016151 | Cucumbers ----- 1,000 s tons.. | 704.3 | 160.2 | *617.0 | 141.3 |
| 016102 | Other fresh vegetables ----- do.. | 209.0 | 67.0 | **116.9 | 33.4 |
| 017011 | Fresh fruits ----- do.. | 62.0 | 15.0 | 22.8 | 12.9 |
| 203411 | Dried fruits ----- do.. | .4 | .3 | .4 | .5 |
| 204602 | Corn syrup ----- mil lb.. | 392.4 | 43.9 | 296.4 | 32.7 |
| 206011 | Sugar (cane and beet) ----- 1,000 s tons.. | 196.3 | 32.5 | 105.5 | 53.0 |
| 207006 | Fats and oils, all types ----- mil lb.. | 1 845.1 | 409.1 | 1 950.6 | 482.4 |
| 265001 | Paperboard containers, boxes, and corrugated paperboard ----- (X) | (X) | 56.7 | (X) | 49.5 |
| 322101 | Glass containers ----- 1,000 gross.. | 22 400.4 | 384.4 | *16 109.4 | 350.1 |
| 970099 | All other materials, ingredients, containers, and supplies ----- (X) | (X) | 955.0 | (X) | 968.9 |
| 971000 | Materials, ingredients, containers, and supplies, n.s.k. ² ----- (X) | (X) | 172.6 | (X) | 139.9 |
| INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES | | | | | |
| | Materials, ingredients, containers, and supplies ----- | (X) | 3 348.7 | (X) | 2 624.7 |
| | Fresh fruit: | | | | |
| 017411 | Oranges ----- 1,000 s tons.. | 2 028.5 | 423.5 | *5 805.2 | 502.8 |
| 017511 | Apples ----- do.. | 184.0 | 52.1 | 313.3 | 39.5 |
| 017111 | Strawberries ----- do.. | 100.3 | 61.3 | *71.7 | 44.1 |
| 017022 | Other fresh fruits ----- do.. | 1 061.8 | 229.1 | 2 088.9 | 111.9 |
| | Fresh vegetables: | | | | |
| 016111 | Green peas ----- 1,000 s tons.. | 152.2 | 36.7 | *175.2 | 37.9 |
| 013411 | White potatoes ----- do.. | 5 218.0 | 539.5 | 4 337.0 | 391.2 |
| 016131 | Sweet corn ----- do.. | 486.6 | 46.0 | 792.0 | 61.3 |
| 016121 | Green or wax beans ----- do.. | 119.4 | 26.3 | 150.8 | 30.1 |
| 016103 | Other fresh vegetables ----- do.. | 1 021.9 | 280.0 | *1 192.9 | 229.6 |

See footnotes at end of table.

Table 3. **Materials Consumed by Kind: 1987 and 1982—Con.**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

| 1987 material code | Material | 1987 | | 1982 | |
|--------------------------|---|-----------------------|--|-----------------------|--|
| | | Quantity ¹ | Delivered cost (million dollars) | Quantity ¹ | Delivered cost (million dollars) |
| | INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES—Con. | | | | |
| | Other materials, ingredients, containers, and supplies: | | | | |
| 206011 | Sugar, cane and beet, in terms of sugar solids ----- 1,000 s tons.. | 76.1 | 28.1 | *56.3 | 26.2 |
| 203701 | Frozen fruits for further processing ----- mil lb.. | 73.3 | 49.2 | *82.8 | 53.7 |
| 203702 | Frozen vegetables for further processing ----- do.. | 349.6 | 131.2 | 370.3 | 112.5 |
| 207006 | Fats and oil, all types ----- do.. | 290.4 | 68.3 | **298.5 | 83.8 |
| 190003 | Flexible packaging materials, except aluminum ----- do.. | (X) | 60.2 | (X) | 50.6 |
| | Containers: | | | | |
| 265001 | Paperboard containers, boxes, and corrugated paperboard ----- | (X) | 263.8 | (X) | 195.1 |
| 341101 | Metal cans ----- | (X) | 119.4 | (X) | 136.5 |
| 970099 | All other materials, ingredients, containers, and supplies ----- | (X) | 864.7 | (X) | 437.0 |
| 971000 | Materials, ingredients, containers, and supplies, n.s.k. ² ----- | (X) | 69.3 | (X) | 80.9 |
| | INDUSTRY 2038, FROZEN SPECIALTIES, N.E.C. | | | | |
| | Materials, ingredients, containers, and supplies ----- | (X) | 2 501.0 | (NA) | (NA) |
| 017011 | Fresh fruits ----- 1,000 s tons.. | 2.5 | 1.7 | (NA) | (NA) |
| 016101 | Fresh vegetables ----- do.. | 750.2 | 171.3 | (NA) | (NA) |
| | Other materials, ingredients, containers, and supplies: | | | | |
| 202210 | Cheese, natural and processed (including imitation cheese and cheese substitutes) ----- mil lb.. | 260.3 | 295.1 | (NA) | (NA) |
| 203361 | Tomato paste (24 percent NTSS equivalent) ----- do.. | 230.1 | 82.5 | (NA) | (NA) |
| 206011 | Sugar, cane and beet, in terms of sugar solids ----- 1,000 s tons.. | 25.5 | 13.6 | (NA) | (NA) |
| 201014 | Meat (fresh, frozen, or prepared) ----- mil lb.. | 382.8 | 459.8 | (NA) | (NA) |
| 203702 | Frozen vegetables for further processing ----- do.. | 217.7 | 90.8 | (NA) | (NA) |
| 207006 | Fats and oil, all types ----- do.. | 172.5 | 44.8 | (NA) | (NA) |
| 204110 | Wheat flour ----- 1,000 cwt.. | 10 874.9 | 135.3 | (NA) | (NA) |
| 190038 | Poultry (live, fresh, or prepared) ----- mil lb.. | 335.8 | 250.1 | (NA) | (NA) |
| 340005 | Aluminum packaging material ----- | (X) | 33.4 | (NA) | (NA) |
| 190003 | Flexible packaging materials, except aluminum ----- | (X) | 96.6 | (NA) | (NA) |
| | Containers: | | | | |
| 265001 | Paperboard containers, boxes, and corrugated paperboard ----- | (X) | 287.0 | (NA) | (NA) |
| 341101 | Metal cans ----- | (X) | 3.8 | (NA) | (NA) |
| 970099 | All other materials, ingredients, containers, and supplies ----- | (X) | 441.2 | (NA) | (NA) |
| 971000 | Materials, ingredients, containers, and supplies, n.s.k. ² ----- | (X) | 93.7 | (NA) | (NA) |

¹For some establishments, data have been estimated from central unit values which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

²Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

³For 1982, these materials were included with material code 970099.

APPENDIX

Scope and Coverage and Explanation of Terms

GENERAL

The 1987 Census of Manufactures is the 32nd census of manufacturing establishments conducted in the United States. For 1987, it was conducted as part of the economic censuses, which included the censuses of mineral industries, construction industries, retail and wholesale trades, service industries, selected transportation activities, and minority-owned and women-owned businesses, under authority of title 13 of the United States Code. Title 13 specifies that an economic census be conducted every 5 years to cover years ending in 2 and 7.

SCOPE AND COVERAGE

Establishment Basis of Reporting

The census of manufactures is conducted on an establishment basis. All manufacturing establishments with one paid employee or more at any time during the year are covered by the census of manufactures. Therefore, a company operating at more than one location is required to file a separate report for each location. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units which service manufacturing establishments of the same company. Where these auxiliary operations are conducted at the same location as the manufacturing operation, they are usually included in the report for the operating manufacturing establishment.

Use of Administrative Records

From a universe of approximately 350,000 manufacturing establishments in the 1987 Census of Manufactures, approximately 150,000 small single-establishment companies were excused from filing reports. Selection of the small establishment nonmail cases was done on an industry-by-industry basis. A variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. The cutoffs were selected so the administrative-record cases would account for approximately 3 percent or less of the value of shipments for the industry. These cutoffs were then adjusted so that all single-establishment companies with less than 5 employees were excluded from the mail canvass, while all establishments with more than 20 employees were included. Where establishments in the 5 to 20 employee size range were included in the mail canvass, an abbreviated census form was frequently used.

For these nonmail establishments, (and a small number of larger establishment whose reports were not received at the time the data were tabulated) data on employment, payroll, and receipts were obtained from administrative records of other government agencies rather than from census forms. The administrative-record information was then used in conjunction with industry averages to estimate the data for these establishments. The value of shipments and cost of materials were not distributed among specific products and materials but were included in the product and material "not specified by kind" (n.s.k.) categories.

EXPLANATION OF TERMS

Number of establishments and companies—A separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

All employees—Includes all full-time and part-time employees on the payrolls at any time during the year. Included are all persons on paid sick leave, paid holidays, and paid vacations. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average of those for midmonth payroll periods of March, May, August, and November.

Production workers—Includes workers up through the working-supervisor level engaged in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., power-plant), recordkeeping, and other closely associated services. Truckdrivers delivering ready-mixed concrete are also included in production workers.

Other employees—Includes nonproduction personnel, including those engaged in the following activities: supervision above working-supervisor level, sales (including driver/salespersons), sales delivery (truckdrivers and helpers), advertising, credit collection, installation and

servicing of own product, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, etc.), professional, and technical employees.

Payroll—Includes the gross earnings for the “employees” defined above, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees’ Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. Respondents were told that in reporting they could follow the definition of payrolls used for calculating the Federal withholding tax.

Production-worker hours—Covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave when the employee was not at the plant.

Cost of materials—Refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuels consumed, regardless of whether they were purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (a) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year; (b) electric energy purchased; (c) fuels consumed for heat, power, or generating electricity; (d) work done by others on materials or parts furnished by manufacturing establishments (contract work); and (e) products bought and resold in the same condition.

Specific materials consumed (table 3)—In addition to the total cost of materials which every establishment was required to report, information was also collected for most manufacturing industries on the consumption of major materials used in manufacturing. These inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers’ records. Establishments consuming less than a specified amount (usually \$10,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which administrative records were used was estimated as “not specified by kind” (n.s.k.).

Value of shipments and other receipts—Generally refers to received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all

miscellaneous receipts such as receipts for contract work performed for others, installation and repair receipts, sale of scrap, and sale of products bought and resold without further processing. Included are all items made by or for the establishment from materials owned by it whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In a few industries, the value of production or value of work completed is used instead of value of shipments. These industries are identified in the introduction and are footnoted in table 1.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, that is, including not only the direct costs of production but also a reasonable proportion of “all other costs” (including company overhead and profit).

Shipments or production of individual products (table 2)—In the 1987 census, detailed shipment information was collected for approximately 11,000 individual products. These products are identified by a seven-digit code and are grouped into approximately 1,500 classes of products, which in turn are primary to 459 four-digit industries. Data at the five-digit product-class level have been collected each year as part of the annual survey of manufactures. Information at the seven-digit level, collected for many industries in the current industrial reports program, is not included in this table.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments for products manufactured plus receipts for services rendered. The result of this calculation is then adjusted by the addition of value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacturing, processing, or assembly) plus the net change in finished goods and work-in-process inventories between the beginning and end of the year.

For those industries where value of production is collected instead of value of shipments (see footnote in table 1), value added is adjusted only for the change in work-in-process inventories between the beginning and end of the year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

Value added avoids the duplication in the figure for value of shipments which results from the use of products of some establishments as materials by others. Value

added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Expenditures for new plant and equipment—Establishments in operation and any known plants under construction were asked to report their expenditures for (a) permanent additions and major alterations to manufacturing establishments and (b) new machinery and equipment used for replacement and additions to plant capacity if they are of the type for which depreciation accounts are ordinarily maintained.

These totals exclude expenditures for used plant and equipment, expenditures for land, and cost of maintenance and repairs charged as current operating expenses. Data for used plant and equipment will be published in the final industry bulletin.

End-of-year inventories—Comprised of (a) finished products; (b) work-in-process; and (c) materials, supplies, fuels, etc. Beginning in 1982, respondents were asked to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method.

Therefore, 1982 through 1987 data for inventories are not strictly comparable to prior-year data.

Specialization and coverage ratios—An establishment is classified in a particular industry if its shipments of primary products of the industry exceed in value its shipments of the products of any other single industry. An establishments' shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). The following ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in table 1 and data on product shipments shown in table 2.

Specialization ratio—Represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio—Represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments, wherever classified.

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